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APPLICATION N	0.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/765,762	765,762 01/26/2004		Katsuhiro Ohara	4041J-000834	1911
27572	7590	03/30/2005	EXAMINER		INER
HARNE	SS, DIC	CKEY & PIERCE,	NGUYEN, HOANG V		
P.O. BOX 828 BLOOMFIELD HILLS, MI 48303				ART UNIT	PAPER NUMBER
2200	<b>,</b>			2821	
				DATE MAILED: 03/30/2005	

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s)			
	10/765,762	OHARA ET AL.			
Office Action Summary	Examiner	Art Unit	_		
	Hoang V. Nguyen	2821			
The MAILING DATE of this communication app Period for Reply	ears on the cover sheet with the c	orrespondence address			
A SHORTENED STATUTORY PERIOD FOR REPLY THE MAILING DATE OF THIS COMMUNICATION.  - Extensions of time may be available under the provisions of 37 CFR 1.13 after SIX (6) MONTHS from the mailing date of this communication.  - If the period for reply specified above is less than thirty (30) days, a reply - If NO period for reply is specified above, the maximum statutory period w - Failure to reply within the set or extended period for reply will, by statute, Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	i6(a). In no event, however, may a reply be time within the statutory minimum of thirty (30) days ill apply and will expire SIX (6) MONTHS from cause the application to become ABANDONE	nely filed s will be considered timely. the mailing date of this communication. O (35 U.S.C. § 133).			
Status					
Responsive to communication(s) filed on  2a) ☐ This action is FINAL. 2b) ☑ This  3) ☐ Since this application is in condition for allowar closed in accordance with the practice under E	action is non-final. ace except for formal matters, pro				
Disposition of Claims					
<ul> <li>4)  Claim(s) 1-6 is/are pending in the application.</li> <li>4a) Of the above claim(s) is/are withdraw</li> <li>5)  Claim(s) is/are allowed.</li> <li>6)  Claim(s) 1 is/are rejected.</li> <li>7)  Claim(s) 2-6 is/are objected to.</li> <li>8)  Claim(s) are subject to restriction and/or</li> </ul>					
Application Papers					
9)☐ The specification is objected to by the Examine 10)☑ The drawing(s) filed on 26 January 2004 is/are: Applicant may not request that any objection to the of Replacement drawing sheet(s) including the correction of the office of the correction of the office of the	a)⊠ accepted or b)⊡ objected drawing(s) be held in abeyance. See on is required if the drawing(s) is obj	e 37 CFR 1.85(a). ected to. See 37 CFR 1.121(d).			
Priority under 35 U.S.C. § 119					
<ul> <li>12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).</li> <li>a) All b) Some * c) None of:</li> <li>1. Certified copies of the priority documents have been received.</li> <li>2. Certified copies of the priority documents have been received in Application No</li> <li>3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).</li> <li>* See the attached detailed Office action for a list of the certified copies not received.</li> </ul>					
Attachment(s)					
Notice of References Cited (PTO-892)  Notice of Draftsperson's Patent Drawing Review (PTO-948)  Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)  Paper No(s)/Mail Date 1/26/04.	4)  Interview Summary Paper No(s)/Mail Da 5)  Notice of Informal P 6)  Other:				

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## Claim Rejections - 35 USC § 102

1. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.
- 2. Claim 1 is rejected under 35 U.S.C. 102(b) as being anticipated by Hunter et al (US 2002/0175862 A1).

Regarding claim 1, Hunter (Figures 1-5b, para. 22-26) discloses an antenna comprising at least one of radiating elements 20; an antenna ground element 21; a dielectric member (not numbered); and a circuit board (not numbered), wherein the dielectric member is arranged between the radiating element and the antenna ground element, and the radiating element and the antenna ground element are held to the dielectric member with a predetermined slant relative to the circuit board.

## Allowable Subject Matter

- 3. Claims 2-6 are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.
- 4. The following is a statement of reasons for the indication of allowable subject matter:

Regarding claim 2, Hunter fails to further teach, among other features, that the antenna ground element is arranged inside the dielectric element by insert molding.

Regarding claims 3-5, Hunter fails to further teach, among other features, a second radiating element that is integrally arranged with the dielectric member, wherein the same

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dielectric member is arranged between both the first and second radiating elements and the antenna ground element.

Regarding claim 6, Hunter fails to further teach, among other features, that the first antenna element functions as a part of an antenna specifically for an onboard unit of an electronic toll collecting system.

## Conclusion

- 5. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure. Patent 5,886,668 discloses an antenna unit comprising a radiating element; an antenna ground element; a dielectric member; and a circuit board, wherein the radiating element being disposed on a slant relative to the circuit board.
- 6. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Hoang V. Nguyen whose telephone number is (571) 272-1825. The examiner can normally be reached on Mondays-Fridays from 9:00 a.m. to 5:00 p.m.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Hoang Nguyen can be reached on (571) 272-1825. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

7. Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

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How

Hvn 3/25/05 HOANG V. NGUYEN PRIMARY EXAMINER